EAST Search History

09/718,531

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|--|---|---------------------|---------|------------------|
| L1 | 0 | zink.xa. or zink.xp. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/21 14:05 |
| L2 | 23 | 707/5.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/21 14:05 |
| S1 | 0 | ("6434556.pn.").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/06/21 14:04 |
| S2 | 2 | "6434556".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/08 17:23 |
| S3 | 0 | distance with text with objects with relevance and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/08 17:24 |
| S4 | 1 | (distance with text with objects) same relevance and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:16 |
| S5 | 2 | "6516337".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/15 09:40 |
| S6 | 282 | (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:17 |
| S7 | 35 | 707/10.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:18 |

EAST Search History

| S8 | 9 | 707/6.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:18 |
|-----|----|--|---|----|----|------------------|
| S9 | 5 | 707/7.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/21 14:05 |
| S10 | 8 | 707/100.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:18 |
| S11 | 6 | 707/101.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:18 |
| S12 | 12 | 707/102.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:21 |
| S13 | 3 | 707/103R.ccls. and (web with sites) with (ratings or rankings or degrees) and @ad < "20001013" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 16:21 |
| S14 | 2 | "6434556".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/20 17:22 |

6/21/06 2:05:47 PM C:\Documents and Settings\KLu\My Documents\EAST\Workspaces\09718531.wsp

Page 2



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Relevance scale

1 Similarity queries I: Efficient similarity search and classification via rank aggregation

Ronald Fagin, Ravi Kumar, D. Sivakumar

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(198.89 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We propose a novel approach to performing efficient similarity search and classification in high dimensional data. In this framework, the database elements are vectors in a Euclidean space. Given a query vector in the same space, the goal is to find elements of the database that are similar to the query. In our approach, a small number of independent "voters" rank the database elements based on similarity to the query. These rankings are then combined by a highly efficient aggregation algorithm. ...

2 Link-based ranking 2: Searching the workplace web

Ronald Fagin, Ravi Kumar, Kevin S. McCurley, Jasmine Novak, D. Sivakumar, John A. Tomlin, David P. Williamson

May 2003 Proceedings of the 12th international conference on World Wide Web Publisher: ACM Press

Full text available: pdf(231.55 KB)

Additional Information: full citation, abstract, references, citings, index terms

The social impact from the World Wide Web cannot be underestimated, but technologies used to build the Web are also revolutionizing the sharing of business and government information within intranets. In many ways the lessons learned from the Internet carry over directly to intranets, but others do not apply. In particular, the social forces that guide the development of intranets are quite different, and the determination of a "good answer" for intranet search is quite different than on the Int ...

3 Query evaluation techniques for large databases

Goetz Graefe

June 1993 ACM Computing Surveys (CSUR), Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be



required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

4 Industrial and practical experience track paper session 1: The volume and evolution





of web page templates

David Gibson, Kunal Punera, Andrew Tomkins

May 2005 Special interest tracks and posters of the 14th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(249.32 KB) Additional Information: full citation, abstract, references, index terms

Web pages contain a combination of unique content and template material, which is present across multiple pages and used primarily for formatting, navigation, and branding. We study the nature, evolution, and prevalence of these templates on the web. As part of this work, we develop new randomized algorithms for template extraction that perform approximately twenty times faster than existing approaches with similar quality. Our results show that 40--50% of the content on the web is templa ...

Keywords: algorithms, boilerplate, data cleaning, data mining, templates, web mining

Fast detection of communication patterns in distributed executions



November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

Searching the Web



August 2001 ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(319.98 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link

analysis, search engine

7 Querying web metadata: Native score management and text support in databases Gültekin Özsoyo□lu, Ismail Sengör Altingövde, Abdullah Al-Hamdani, Selma Ayşe Özel, Özgür Ulusoy, Zehra Meral özsoyo□lu

December 2004 ACM Transactions on Database Systems (TODS), Volume 29 Issue 4

Publisher: ACM Press

Full text available: pdf(737.76 KB) Additional Information: full citation, abstract, references, index terms

In this article, we discuss the issues involved in adding a native score management system to object-relational databases, to be used in querying Web metadata (that describes the semantic content of Web resources). The Web metadata model is based on topics (representing entities), relationships among topics (called metalinks), and importance scores (sideway values) of topics and metalinks. We extend database relations with scoring functions and importance scores. We add to SQL score-manag ...

Keywords: Score management for Web applications

8 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(213.89 KB)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

9 Service discovery: Discovering and ranking web services with BASIL: a personalized



approach with biased focus

James Caverlee, Ling Liu, Daniel Rocco

November 2004 Proceedings of the 2nd international conference on Service oriented computing

Publisher: ACM Press

Full text available: pdf(283.05 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present a personalized web service discovery and ranking technique for discovering and ranking relevant data-intensive web services. Our first prototype -- called BASIL -- supports a <i>personalized</i> view of data-intensive web services through source-biased focus. BASIL provides service discovery and ranking through source-biased probing and source-biased relevance metrics. Concretely, the BASIL approach has three unique features: (1) It is able to determine in ver ...

Keywords: biased discovery, data-intensive services, ranking

10



Link-based ranking 2: A new paradigm for ranking pages on the world wide web John A. Tomlin



May 2003 Proceedings of the 12th international conference on World Wide Web **Publisher: ACM Press**

Full text available: Dof(112.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes a new paradigm for modeling traffic levels on the world wide web (WWW) using a method of entropy maximization. This traffic is subject to the conservation conditions of a circulation flow in the entire WWW, an aggregation of the WWW, or a subgraph of the WWW (such as an intranet or extranet). We specifically apply the primal and dual solutions of this model to the (static) ranking of web sites. The first of these uses an imputed measure of total traffic through a web page, t ...

Keywords: entropy, optimization, search engines, static ranking

11 Discovering critical edge sequences in E-commerce catalogs



Full text available: pdf(270.53 KB) Additional Information: full citation, abstract, references, index terms

Web sites allow the collection of vast amounts of navigational data -- clickstreams of user traversals through the site. These massive data stores offer the tantalizing possibility of uncovering interesting patterns within the dataset. For e-businesses, always looking for an edge in the hyper-competitive online marketplace, this possibility is of particular interest. Of significant particular interest to e-businesses is the discovery of Critical Edge Sequences (CES), which denote f ...

Keywords: accuracy, approximation, critical edge sequence, web site performance, web usage analysis

12 Efficiently serving dynamic data at highly accessed web sites James R. Challenger, Paul Dantzig, Arun Iyengar, Mark S. Squillante, Li Zhang April 2004 IEEE/ACM Transactions on Networking (TON), Volume 12 Issue 2

Publisher: IEEE Press

Full text available: pdf(499.05 KB) Additional Information: full citation, abstract, references, index terms

We present architectures and algorithms for efficiently serving dynamic data at highly accessed Web sites together with the results of an analysis motivating our design and quantifying its performance benefits. This includes algorithms for keeping cached data consistent so that dynamic pages can be cached at the Web server and dynamic content can be served at the performance level of static content. We show that our system design is able to achieve cache hit ratios close to 100% for cached data ...

Keywords: caching, dynamic content, performance analysis, prefetching, stochastic models, web sites

13 GLARE: A Grid Activity Registration, Deployment and Provisioning Framework Mumtaz Siddiqui, Alex Villazon, Jurgen Hofer, Thomas Fahringer November 2005 Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC

Publisher: IEEE Computer Society

Additional Information: full citation, abstract Full text available: Publisher Site

Resource management is a key concern for implementing effective Grid middleware and shielding application developers from low level details. Existing resource managers concentrate mostly on physical resources. However, some advanced Grid programming environments allow application developers to specify Grid application components at high level of abstraction which then requires an effective mapping between high level application description (activity types) and actual deployed software components ...

14 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

15 An adaptive real-time Web search engine

Augustine Chidi Ikeji, Farshad Fotouhi

November 1999 Proceedings of the 2nd international workshop on Web information and data management

Publisher: ACM Press

Full text available: pdf(813.68 KB) Additional Information: full citation, abstract, references, index terms

The Internet provides a wealth of information scattered all over the world. The fact that the information may be located anywhere makes it both convenient for placing information on the Web and difficult for others to find. Conventional search engines can only locate information that is in their search index and users do not have much choice in limiting or expanding the search parameters. Some web pages like those for news services change frequently and will not work well with index based s ...

16 The state of the art in distributed query processing

Donald Kossmann

December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(455.39 KB)

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing,



middleware, multitier architectures, query execution, query optimization, replication, wrappers

17 Plenary papers: Learning the semantics of multimedia queries and concepts from a



small number of examples

Apostol (Paul) Natsev, Milind R. Naphade, Jelena TešiĆ

November 2005 Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05

Publisher: ACM Press

Full text available: pdf(533.74 KB) Additional Information: full citation, abstract, references, index terms

In this paper we unify two supposedly distinct tasks in multimedia retrieval. One task involves answering queries with a few examples. The other involves learning models for semantic concepts, also with a few examples. In our view these two tasks are identical with the only differentiation being the number of examples that are available for training. Once we adopt this unified view, we then apply identical techniques for solving both problems and evaluate the performance using the NIST TRECVID b ...

Keywords: MECBR, TRECVID, semantics, support vector machines

18 Business models and market mechanisms: evaluating efficiencies in consumer



electronic markets

Jonathan Palmer, Markus Lindemann

June 2003 ACM SIGMIS Database, Volume 34 Issue 2

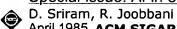
Publisher: ACM Press

Full text available: Dpdf(287.67 KB) Additional Information: full citation, abstract, references

The paper examines business models utilizing three different market mechanisms on the Internet: direct search, broker, and dealer. Utilizing capital markets and information theory to compare the business models, the research looks at specific market mechanisms instantiated in PriceScan, NetMarket, and Bottom Dollar. The web sites supporting the market structures were also evaluated on trust mechanisms, reputational ratings, information quality, availability, speed, and liquidity. Twenty standard ...

Keywords: efficiency, electronic markets, market structure, world wide web

19 Special issue: Al in engineering



April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

NSDL: Core services in the architecture of the national science digital library (NSDL)



Carl Lagoze, William Arms, Stoney Gan, Diane Hillmann, Christopher Ingram, Dean Krafft, Richard Marisa, Jon Phipps, John Saylor, Carol Terrizzi, Walter Hoehn, David Millman, James Allan, Sergio Guzman-Lara, Tom Kalt

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(940.66 KB) Additional Information: full citation, abstract, references, citings, index

We describe the core components of the architecture for the National Science Digital Library (NSDL). Over time the NSDL will include heterogeneous users, content, and services. To accommodate this, a design for a technical and organization infrastructure has been formulated based on the notion of a spectrum of interoperability. This paper describes the first phase of the interoperability infrastructure including the metadata repository, search and discovery services, rights management services, ...

Keywords: architecture, interoperability, metadata, testbeds

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Relevance scale

21 TinyDB: an acquisitional query processing system for sensor networks

window

Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong March 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, index terms

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (sampled) and delivered to query processing operators. By focusing on the locations and costs of acquiring data, we are able to significantly reduce power consumption over traditional passive systems that assume the a priori existence of data. We discuss simple extensions to SQL for controlli ...

Keywords: Query processing, data acquisition, sensor networks

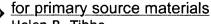
22 Automatic personalization based on Web usage mining

Bamshad Mobasher, Robert Cooley, Jaideep Srivastava August 2000 Communications of the ACM, Volume 43 Issue 8

Publisher: ACM Press

Full text available: pdf(2.62 MB) Additional Information: full citation, references, citings, index terms html(49.24 KB)

23 Building and using cultural digital libraries: Primarily history: historians and the search



Helen R. Tibbo

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(225.16 KB)

This paper describes the first phase of an international project that is exploring how historians locate primary resource materials in the digital age, what they are teaching their Ph.D. students about finding research materials, and what archivists are doing to facilitate access to these materials. Preliminary findings are presented from a survey of 300 historians studying American History from leading institutions of higher education in the U.S. Tentative conclusions indicate the need to provi ...

Keywords: archives, historians, historical research, information-seeking behavior, manuscript repositories, primary resources, users

24 Adaptive performance prediction for distributed data-intensive applications



Marcio Faerman, Alan Su, Richard Wolski, Francine Berman

January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM Press

Full text available: pdf(292.25 KB) Additional Information: full citation, references, citings, index terms

25 STARTS: Stanford proposal for Internet meta-searching



Luis Gravano, Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.53 MB)

Additional Information: full citation, abstract, references, citings, index

Document sources are available everywhere, both within the internal networks of organizations and on the Internet. Even individual organizations use search engines from different vendors to index their internal document collections. These search engines are typically incompatible in that they support different query models and interfaces, they do not return enough information with the query results for adequate merging of the results, and finally, in that they do not export metadata about t ...

26 <u>Digital libraries for spatial data: The ADEPT digital library architecture</u>



Greg Janée, James Frew

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

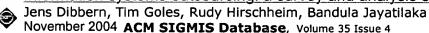
Full text available: pdf(263.61 KB)

Additional Information: full citation, abstract, references, citings, index

The Alexandria Digital Earth ProtoType (ADEPT) architecture is a framework for building distributed digital libraries of georeferenced information. An ADEPT system comprises one or more autonomous libraries, each of which provides a uniform interface to one or more collections, each of which manages metadata for one or more items. The primary standard on which the architecture is based is the ADEPT bucket framework, which defines uniform client-level metadata query services that are compatible w ...

Keywords: bucket framework, collection discovery, distribution, interoperability, metadata

²⁷ Information systems outsourcing: a survey and analysis of the literature



Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and

complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

28 Recommender systems in e-commerce

J. Ben Schafer, Joseph Konstan, John Riedi

November 1999 Proceedings of the 1st ACM conference on Electronic commerce

Publisher: ACM Press

Full text available: pdf(112.96 KB) Additional Information: full citation, references, citings, index terms

Keywords: cross-sell, customer loyalty, electronic commerce, interface, mass customization, recommender systems, up-sell

29 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyawej, Minsoo Lee, Herman Lam August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: 🔂 pdf(355.19 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

30 Quantifying and computing with structure: As we may perceive: inferring logical

documents from hypertext

Pavel Dmitriev, Carl Lagoze, Boris Suchkov

September 2005 Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05

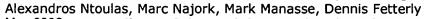
Publisher: ACM Press

Full text available: Topological pdf(670.50 KB) Additional Information: full citation, abstract, references, index terms

In recent years, many algorithms for the Web have been developed that work with information units distinct from individual web pages. These include segments of web pages or aggregation of web pages into web communities. Such logical information units improve a variety of web algorithms and provide the building blocks for the construction of organized information spaces such as digital libraries. In this paper, we focus on a type of logical information units called "compound documents". We argue ...

Keywords: WWW, clustering, compound documents

31 Fighting search spam: Detecting spam web pages through content analysis





Publisher: ACM Press

Full text available: pdf(259.06 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we continue our investigations of "web spam": the injection of artificiallycreated pages into the web in order to influence the results from search engines, to drive traffic to certain pages for fun or profit. This paper considers some previously-undescribed techniques for automatically detecting spam pages, examines the effectiveness of these techniques in isolation and when aggregated using classification algorithms. When combined, our heuristics correctly identify 2,037 (86.2% ...

Keywords: data mining, web characterization, web pages, web spam

32 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

33 Designing and mining multi-terabyte astronomy archives: the Sloan Digital Sky

Alexander S. Szalay, Peter Z. Kunszt, Ani Thakar, Jim Gray, Don Slutz, Robert J. Brunner May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(429.09 KB)

The next-generation astronomy digital archives will cover most of the sky at fine resolution in many wavelengths, from X-rays, through ultraviolet, optical, and infrared. The archives will be stored at diverse geographical locations. One of the first of these projects, the Sloan Digital Sky Survey (SDSS) is creating a 5-wavelength catalog over 10,000 square degrees of the sky (see http://www.sdss.org/). The 200 million objects in the multi-terabyte database will have mostly numerical attribut ...

Keywords: Internet, archive, astronomy, data analysis, data mining, database, scalable

34 Gathering at the well: creating communities for grid I/O

Douglas Thain, John Bent, Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau, Miron Livny November 2001 Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(139.41 KB)

Grid applications have demanding I/O needs. Schedulers must bring jobs and data in close proximity in order to satisfy throughput, scalability, and policy requirements. Most systems accomplish this by making either jobs or data mobile. We propose a system that allows jobs and data to meet by binding execution and storage sites together into I/O communities which then participate in the wide-area system. The relationships between







participants in a community may be expressed by the ClassAd ...

35 SenseMaker: an information-exploration interface supporting the contextual evolution



of a user's interests

Michelle Q. Wang Baldonado, Terry Winograd

March 1997 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

Keywords: digital libraries, information exploration, information retrieval, information seeking

36 Digital libraries, value, and productivity



Gio Wiederhold

April 1995 Communications of the ACM, Volume 38 Issue 4

Publisher: ACM Press

Full text available: pdf(292.07 KB)

Additional Information: full citation, abstract, references, citings, index

A digital library is popularly viewed an electronic version of a public library. But replacing paper by electronic storage leads to three major differences: storage in digital form, direct communication to obtain material, and copying from a master version. These differences in turn lead to a plethora of further differences, so that eventually the digital library no longer mimics the traditional library. Furthermore, a library is only element in the process of creating, storing, culling, ac ...

37 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital



libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(316.85 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

38 HyPursuit: a hierarchical network search engine that exploits content-link hypertext





<u>clusterina</u> Ron Weiss, Bienvenido Vélez, Mark A. Sheldon

March 1996 Proceedings of the the seventh ACM conference on Hypertext

Publisher: ACM Press

Full text available: pdf(2.00 MB) Additional Information: full citation, references, citings, index terms 39 Research track papers: Web usage mining based on probabilistic latent semantic



<u>analysis</u>

Xin Jin, Yanzan Zhou, Bamshad Mobasher

August 2004 Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04

Publisher: ACM Press

Full text available: pdf(747.27 KB)

Additional Information: full citation, abstract, references, citings, index terms

The primary goal of Web usage mining is the discovery of patterns in the navigational behavior of Web users. Standard approaches, such as clustering of user sessions and discovering association rules or frequent navigational paths, do not generally provide the ability to automatically characterize or quantify the unobservable factors that lead to common navigational patterns. It is, therefore, necessary to develop techniques that can automatically discover hidden semantic relationships among use ...

Keywords: PLSA, Web usage mining, user profiling

40 Q focus: semi-structured data: Why your data won't mix



Alon Halevy

October 2005 Queue, Volume 3 Issue 8

Publisher: ACM Press

Full text available: pdf(442.63 KB)

html(37.01 KB)

Additional Information: full citation, abstract, references, index terms

New tools and techniques can help ease the pain of reconciling schemas.

Results 21 - 40 of 102

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Results 41 - 60 of 102

Result page: previous 1 2 3 4 5 6

Relevance scale

41 Mining multimedia data

Osmar R. Zaïane, Jiawei Han, Ze-Nian Li, Jean Hou

 \triangle

window

November 1998 Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(377.84 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data Mining is a young but flourishing field. Many algorithms and applications exist to mine different types of data and extract different types of knowledge. Mining multimedia data is, however, at an experimental stage. We have implemented a prototype for mining high-level multimedia information and knowledge from large multimedia databases. MultiMedia Miner has been designed based on our years of experience in the research and development of a relational data mining system, DBMiner, in the Inte ...

Keywords: data cube, data mining, data warehousing, image analysis, information retrieval, multimedia, world-wide web

42 Queue Focus: Search: Enterprise Search: Tough Stuff

Rajat Mukherjee, Jianchang Mao April 2004 Queue, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(2.29 MB) html(37.45 KB)

Additional Information: full citation, citings, index terms

43 Research track: Cross-training: learning probabilistic mappings between topics Sunita Sarawagi, Soumen Chakrabarti, Shantanu Godbole

August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM Press

Full text available: pdf(331.75 KB)

Additional Information: full citation, abstract, references, citings, index terms

Classification is a well-established operation in text mining. Given a set of labels A and a set D_A of training documents tagged with these labels, a classifier learns to assign labels

to unlabeled test documents. Suppose we also had available a different set of labels B, together with a set of documents D_B marked with labels from B. If A and B have some semantic overlap, can the availability of D_R help us b ...

Keywords: EM, document classification, semi-supervised multi-task learning, support vector machines

44 Extensible query processing in starburst

L. M. Haas, J. C. Freytag, G. M. Lohman, H. Pirahesh

June 1989 ACM SIGMOD Record, Proceedings of the 1989 ACM SIGMOD international conference on Management of data SIGMOD '89, Volume 18 Issue 2

Publisher: ACM Press

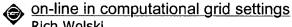
Full text available: pdf(1.63 MB)

Additional Information: full citation, abstract, references, citings, index

Today's DBMSs are unable to support the increasing demands of the various applications that would like to use a DBMS. Each kind of application poses new requirements for the DBMS. The Starburst project at IBM's Almaden Research Center aims to extend relational DBMS technology to bridge this gap between applications and the DBMS. While providing a full function relational system to enable sharing across applications, Starburst will also allow (sophisticated) programmers to add many kinds of ...

45 Special section on grid computing: Experiences with predicting resource performance





Rich Wolski

March 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references

In this paper, we describe methods for predicting the performance of Computational Grid resources (machines, networks, storage systems, etc.) using computationally inexpensive statistical techniques. The predictions generated in this manner are intended to support adaptive application scheduling in Grid settings, and on-line fault detection. Wedescribe a mixture-of-experts approach to non-parametric, univariate time-series forecasting, and detail the effectiveness of the approach using example d ...

The role of intermediary services in emerging digital libraries





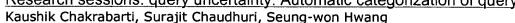
Allen Brewer, Wei Ding, Karla Hahn, Anita Komlodi

April 1996 Proceedings of the first ACM international conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(860.18 KB) Additional Information: full citation, references, citings, index terms

47 Research sessions: query uncertainty: Automatic categorization of query results





Publisher: ACM Press

Full text available: pdf(236.05 KB) Additional Information: full citation, abstract, references

Exploratory ad-hoc queries could return too many answers - a phenomenon commonly referred to as "information overload". In this paper, we propose to automatically categorize the results of SQL queries to address this problem. We dynamically generate a labeled, hierarchical category structure - users can determine whether a category is

relevant or not by examining simply its label; she can then explore just the relevant categories and ignore the remaining ones, thereby reducing information overlo ...

48 Optimization of query streams using semantic prefetching

Ivan T. Bowman, Kenneth Salem

December 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Streams of relational queries submitted by client applications to database servers contain patterns that can be used to predict future requests. We present the Scalpel system, which detects these patterns and optimizes request streams using context-based predictions of future requests. Scalpel uses its predictions to provide a form of semantic prefetching, which involves combining a predicted series of requests into a single request that can be issued immediately. Scalpel's semantic prefetching ...

Keywords: Prefetching, query streams

49 Learning classifiers: Using urls and table layout for web classification tasks

L. K. Shih, D. R. Karger

May 2004 Proceedings of the 13th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(357.43 KB) Additional Information: full citation, abstract, references, index terms

We propose new features and algorithms for automating Web-page classification tasks such as content recommendation and ad blocking. We show that the automated classification of Web pages can be much improved if, instead of looking at their textual content, we consider each links's URL and the visual placement of those links on a referring page. These features are unusual: rather than being scalar measurements like word counts they are tree structured---describing the position of the item ...

Keywords: classification, news recommendation, tree structures, web applications

50 Selected IR-Related Dissertation Abstracts

February 1992 ACM SIGIR Forum, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(2.24 MB) Additional Information: full citation

51 Selected IR-Related Dissertation Abstracts

March 1993 ACM SIGIR Forum, Volume 27 Issue 1

Publisher: ACM Press

Full text available: pdf(2.24 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, and abstract. Unless otherwise specified, paper or microform copies of dissertations may be ordered from University Microfilms Inter ...

52 Web Clustering, filtering and applications: On improving local website search using web server traffic logs: a preliminary report



Qing Cui, Alex Dekhtyar

November 2005 Proceedings of the 7th annual ACM international workshop on Web information and data management WIDM '05

Publisher: ACM Press

Full text available: pdf(372.73 KB) Additional Information: full citation, abstract, references, index terms

In this paper we give a preliminary report on our study of the use of web server traffic logs to improve local search. Web server traffic logs are, typically, private to individual websites and as such -- are unavailable to traditional web search engines conducting searches across multiple web sites. However, they can be used to augment search performed by a local search engine, restricted to a single site. Web server traffic logs, which we will refer to as simply logs throughout this paper, cont ...

Keywords: Markov decision process, PageRank, local web search, probabilistic automata, web search, web traffic logs

53 Web search 1: Using ODP metadata to personalize search



Paul Alexandru Chirita, Wolfgang Nejdl, Raluca Paiu, Christian Kohlschütter August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

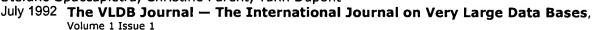
Publisher: ACM Press

Full text available: pdf(310.29 KB) Additional Information: full citation, abstract, references, index terms

The Open Directory Project is clearly one of the largest collaborative efforts to manually annotate web pages. This effort involves over 65,000 editors and resulted in metadata specifying topic and importance for more than 4 million web pages. Still, given that this number is just about 0.05 percent of the Web pages indexed by Google, is this effort enough to make a difference? In this paper we discuss how these metadata can be exploited to achieve high quality personalized web search. First, we ...

Keywords: biased pageRank, metadata, open directory, personalized search

Model independent assertions for integration of heterogeneous schemas Stefano Spaccapietra, Christine Parent, Yann Dupont



Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.15 MB) Additional Information: full citation, abstract, references, citings

Due to the proliferation of database applications, the integration of existing databases into a distributed or federated system is one of the major challenges in responding to enterprises' information requirements. Some proposed integration techniques aim at providing database administrators (DBAs) with a view definition language they can use to build the desired integrated schema. These techniques leave to the DBA the responsibility of appropriately restructuring schema elements from existing 1 ...

Keywords: conceptual modeling, database design and integration, distributed databases, federated databases, heterogeneous databases, schema integration

55 Research sessions: P2P and sensor networks: Efficient query reformulation in peer



data management systems

Igor Tatarinov, Alon Halevy

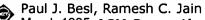
June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: Top pdf(291.76 KB) Additional Information: full citation, abstract, references, citings

Peer data management systems (PDMS) offer a flexible architecture for decentralized data sharing. In a PDMS, every peer is associated with a schema that represents the peer's domain of interest, and semantic relationships between peers are provided locally between pairs (or small sets) of peers. By traversing semantic paths of mappings, a query over one peer can obtain relevant data from any reachable peer in the network. Semantic paths are traversed by reformulating queries at a peer int ...

56 Three-dimensional object recognition



March 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(7.76 MB) terms, review

A general-purpose computer vision system must be capable of recognizing threedimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

57 Scalable collection summarization and selection

R. Dolin, D. Agrawal, E. El Abbadi

August 1999 Proceedings of the fourth ACM conference on Digital libraries

Publisher: ACM Press

Full text available: 📆 pdf(263.57 KB) Additional Information: full citation, references, citings, index terms

Keywords: automated classification, metadata, resource discovery, scalability

58 Unchained value: the new logic of digital business

Mary J. Cronin

February 2001 Ubiquity, Volume 1 Issue 46

Publisher: ACM Press

Full text available: html(56.83 KB) Additional Information: full citation, index terms

59 Rule-based optimization and query processing in an extensible geometric database

system

Ludger Becker, Ralf Hartmut Güting

June 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(3.35 MB) terms, review

Gral is an extensible database system, based on the formal concept of a many-sorted relational algebra. Many-sorted algebra is used to define any application's query language, its query execution language, and its optimiztion rules. In this paper we describe Gral's optimization component. It provides (1) a sophisticated rule language rules are transformations of abstract algebra expressions, (2) a general optimization framework under which more specific optimization algorithms can be ...

Keywords: extensibility, geometric query processing, many-sorted algebra, optimization, relational algebra, rule-based optimization

60 A survey of approaches to automatic schema matching



Erhard Rahm, Philip A. Bernstein

December 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(196.22 KB) Additional Information: full citation, abstract, citings, index terms

Schema matching is a basic problem in many database application domains, such as data integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significant limitations. On the other hand, previous research papers have proposed many techniques to achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approach ...

Keywords: Graph matching, Machine learning, Model management, Schema integration, Schema matching

Results 41 - 60 of 102

Result page: previous 1 2 **3** 4 5 6

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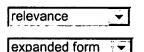
Feedback Report a problem Satisfaction survey

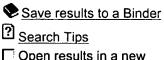
Terms used catalog multiple sites ranking aggregating

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Result page: previous 1 2 3 4 5 6

Relevance scale

61 Towards the digital government of the 21st century

Herbert Schorr, Salvatore J. Stolfo

May 2002 Proceedings of the 2002 annual national conference on Digital government research dg.o '02

Publisher: Digital Government Research Center

Full text available: pdf(319.96 KB) Additional Information: full citation, abstract

window

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information servic ...

62 Towards the digital government of the 21st century: a report from the workshop on research and development opportunities in federal information services Herbert Schorr, Salvatore J. Stolfo



May 2000 Proceedings of the 2000 annual national conference on Digital government research dg.o '00

Publisher: Digital Government Research Center

Full text available: pdf(339.17 KB) Additional Information: full citation, abstract

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information servic ...

63 Searching for the needle in the haystack: taxonomies, tags and targets

Michael Pelikan, James Leous, Richard Pearce, Margaret E. Smith, Russell Vaught October 2004 Proceedings of the 32nd annual ACM SIGUCCS conference on User services

Publisher: ACM Press

Full text available: pdf(165.65 KB) Additional Information: full citation, abstract, references, index terms

The Penn State Taxonomic Tags group, with representatives from Information Technology, Business Administration, and the Penn State Libraries, was formed to examine whether a taxonomic set of tags, systematically applied across the university's Web pages, could (a) make finding specific pages easier from among the University's greater than 500,000 Web pages, (b) simplify Web content management tasks and (c) prove useful over time as search engines continue to evolve and despite whether open

Keywords: content management systems, controlled vocabularies, metadata, taxonomies, web search engines

64 The process group approach to reliable distributed computing

Kenneth P. Birman

December 1993 Communications of the ACM, Volume 36 Issue 12

Publisher: ACM Press

Full text available: pdf(6.00 MB) Additional Information: full citation, references, citings, index terms

Keywords: fault-tolerant process groups, message ordering, multicast communication

65 Combinatorial pattern discovery for scientific data: some preliminary results

Jason Tsong-Li Wang, Gung-Wei Chirn, Thomas G. Marr, Bruce Shapiro, Dennis Shasha, Kaizhong Zhang

May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94, Volume 23 Issue 2

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(1.04 MB) terms

Suppose you are given a set of natural entities (e.g., proteins, organisms, weather patterns, etc.) that possess some important common externally observable properties. You also have a structural description of the entities (e.g., sequence, topological, or geometrical data) and a distance metric. Combinatorial pattern discovery is the activity of finding patterns in the structural data that might explain these common properties based on the metric. This paper presents an example o ...

66 Practical evaluation of IR within automated classification systems

R. Dolin, J. Pierre, M. Butler, R. Avedon

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(909.47 KB)

This paper describes some of the work we have done to evaluate and compare the use of three IR systems (Verity, LSI, and SMART) as black boxes within an automated classification environment. We use automated classification to make a quantitative comparison of the effectiveness of the systems within this context. In so doing, we also develop criteria for the construction of a useful training set. These results lead to metrics useful in the integration of IR systems into larger applications. ...

Keywords: IR evaluation, automated classification, training sets

67 Summary of the final report of the NSF workshop on scientific database management

James C. French, Anita K. Jones, John L. Pfaltz

December 1990 ACM SIGMOD Record, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(679.90 KB) Additional Information: full citation, abstract, citings, index terms

The National Science Foundation sponsored a two day workshop hosted by the University of Virginia on March 12-13, 1990 at which representatives from the earth, life, and space sciences met with computer scientists to discuss the issues facing the scientific community in the area of database management. The workshop1 participants concluded that initiatives by the National Science Foundation and other funding agencies, as well as specific discipline professional societies ...

68 Item-based top-N recommendation algorithms

Mukund Deshpande, George Karypis

January 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(240.61 KB) Additional Information: full citation, abstract, references, index terms

The explosive growth of the world-wide-web and the emergence of e-commerce has led to the development of recommender systems---a personalized information filtering technology used to identify a set of items that will be of interest to a certain user. Userbased collaborative filtering is the most successful technology for building recommender systems to date and is extensively used in many commercial recommender systems. Unfortunately, the computational complexity of these methods grows I ...

Keywords: e-commerce, predicting user behavior, world wide web

69 Selected IR-Related Dissertation Abstracts



May 1991 ACM SIGIR Forum, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(2.71 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

70 Interoperability for digital libraries worldwide

Andreas Paepcke, Chen-Chuan K. Chang, Terry Winograd, Héctor García-Molina April 1998 Communications of the ACM, Volume 41 Issue 4

Publisher: ACM Press

Full text available: pdf(299.48 KB) Additional Information: full citation, references, citings, index terms

71 Steady-state simulation of queueing processes: survey of problems and solutions



June 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 2

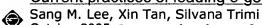
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(4.75 MB) terms

For years computer-based stochastic simulation has been a commonly used tool in the performance evaluation of various systems. Unfortunately, the results of simulation studies quite often have little credibility, since they are presented without regard to their random nature and the need for proper statistical analysis of simulation output data. This

paper discusses the main factors that can affect the accuracy of stochastic simulations designed to give insight into the steady-st ...

72 Current practices of leading e-government countries



October 2005 Communications of the ACM, Volume 48 Issue 10

Publisher: ACM Press

Full text available: pdf(129.32 KB) html(29.72 KB)

Additional Information: full citation, abstract, references, index terms

IT is transforming the way governments function and valuable lessons can be learned from the pioneering e-government programs that have led the charge.

73 Information retrieval 2: Text joins in an RDBMS for web data integration

Luis Gravano, Panagiotis G. Ipeirotis, Nick Koudas, Divesh Srivastava May 2003 Proceedings of the 12th international conference on World Wide Web Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(717.46 KB)

The integration of data produced and collected across autonomous, heterogeneous web services is an increasingly important and challenging problem. Due to the lack of global identifiers, the same entity (e.g., a product) might have different textual representations across databases. Textual data is also often noisy because of transcription errors, incomplete information, and lack of standard formats. A fundamental task during data integration is matching of strings that refer to the same entity. ...

Keywords: approximate text matching, data cleaning, text indexing

74 TIPSTER architecture: TIPSTER text phase II architecture concept

Architecture Committee

May 1996 Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996

Publisher: Association for Computational Linguistics

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract

The TIPSTER Architecture is a software architecture for providing Document Detection (i.e. Information Retrieval and Message Routing) and Information Extraction functions to text handling applications. The high level architecture is described in an Architecture Design Document. In May 1996, when the initial architecture design is complete, an Interface Control Document will be provided specifying the form and content of all inputs and outputs to the TIPSTER modules.

75 Understanding users II: A qualitative assessment of the efficacy of UML diagrams as

a form of graphical documentation in aiding program understanding

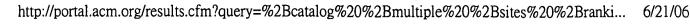
Scott Tilley, Shihong Huang

October 2003 Proceedings of the 21st annual international conference on **Documentation**

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(274.99 KB) terms

Graphical documentation is often characterized as an effective aid in program understanding. However, it is an open question exactly which types of graphical documentation are most suitable for which types of program understanding tasks (and in which specific usage contexts). The Unified Modeling Language (UML) is the de facto standard for modeling modern software applications. This paper describes an experiment



to assess the qualitative efficacy of UML diagrams in aiding program understanding. ...

Keywords: Unified Modeling Language (UML), assessment, graphical documentation, program understanding

76 Quantifying the effect of user interface design features on cyberstore traffic and sales





Gerald L. Lohse, Peter Spiller

January 1998 Proceedings of the SIGCHI conference on Human factors in computing systems

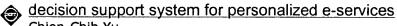
Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

Keywords: Internet retail store design, WWW, economic value, electronic commerce, marketing, regression analysis, shopping

77 <u>Innovation, management & strategy: A web-based consumer-oriented intelligent</u>





Chien-Chih Yu

March 2004 Proceedings of the 6th international conference on Electronic commerce **ICEC '04**

Publisher: ACM Press

Full text available: pdf(479.14 KB) Additional Information: full citation, abstract, references, index terms

Due to the rapid advancement of electronic commerce and web technologies in recent years, the concepts and applications of decision support systems have been significantly extended. One quickly emerging research topic is the consumer-oriented decision support system that provides functional supports to consumers for efficiently and effectively making personalized decisions. In this paper we present an integrated framework for developing web-based consumer-oriented intelligent decision support sy ...

Keywords: decision making process, e-services, intelligent decision support system, personalization

78 <u>Technical session 15: WWW image retrieval: Hierarchical clustering of WWW image</u>





search results using visual, textual and link information

Deng Cai, Xiaofei He, Zhiwei Li, Wei-Ying Ma, Ji-Rong Wen

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.15 MB)

We consider the problem of clustering Web image search results. Generally, the image search results returned by an image search engine contain multiple topics. Organizing the results into different semantic clusters facilitates users' browsing. In this paper, we propose a hierarchical clustering method using visual, textual and link analysis. By using a vision-based page segmentation algorithm, a web page is partitioned into blocks, and the textual and link information of an image can be accu ...

Keywords: graph model, image clustering, link analysis, search result organization. spectral analysis, vision based page segmentation, web image search

79 I/O reference behavior of production database workloads and the TPC benchmarks—



an analysis at the logical level

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

March 2001 ACM Transactions on Database Systems (TODS), Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(5.42 MB)

Additional Information: full citation, abstract, references, citings, index

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amoungs of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak productiondatabase workloads from ten of the world's largest corporatio ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

A model-based approach to simulation composition



Jesse Aronson, Prasanta Bose

May 1999 Proceedings of the 1999 symposium on Software reusability

Publisher: ACM Press

Full text available: pdf(1.25 MB)

Additional Information: full citation, references, index terms

Keywords: component selection, composition, constraints, domain-specific architectural model, hierarchical decomposition, simulation

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Selected IR-Related Dissertation Abstracts

September 1991 ACM SIGIR Forum, Volume 25 Issue 2

Ö

Publisher: ACM Press

Full text available: pdf(2.75 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

82 Knowledge sharing, quality, and intermediation

Claire Vishik, Andrew B. Whinston

March 1999 ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Informal publishing flourished in the World Wide Web environment, where every user with a sufficient level of access can become a publisher. Although it appears that in such an environment intermediation in the distribution and sharing of information becomes unnecessary, the uneven quality of information and resulting quality uncertainty of information users, together with the increased search efforts, represent a sufficient reason for information and knowledge intermediaries to preserve and eve ...

Keywords: Internet, World Wide Web, economics of information, information exchange, intermediation, knowledge management

83 Student tracking and personalization: Dynamic assembly of learning objects

Robert G. Farrell, Soyini D. Liburd, John C. Thomas

May 2004 Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters

Publisher: ACM Press

Full text available: pdf(307.02 KB) Additional Information: full citation, abstract, references, index terms

This paper describes one solution to the problem of how to select sequence, and link Web

resources into a coherent, focused organization for instruction that addresses a user's immediate and focused learning need. A system is described that automatically generates individualized learning paths from a repository of XML Web resources. Each Web resource has an XML Learning Object Metadata (LOM) description consisting of General, Educational, and Classification metadata. Dynamic assembly of these le ...

Keywords: LOM, RDF, assembly, content management, data retrieval, information retrieval, instruction, learning object, linking, metadata, organization, semantic web

84 Internetworking: coordinating technology for systemic reform

Beverly Hunter

May 1993 Communications of the ACM, Volume 36 Issue 5

Publisher: ACM Press

Full text available: pdf(6.41 MB) Additional Information: full citation, references, index terms, review

The consumer side of search: Personalized search



James Pitkow, Hinrich Schütze, Todd Cass, Rob Cooley, Don Turnbull, Andy Edmonds, Eytan Adar, Thomas Breuel

September 2002 Communications of the ACM, Volume 45 Issue 9

Publisher: ACM Press

Full text available: pdf(530.58 KB) Additional Information: full citation, abstract, references, citings, index html(41.77 KB) <u>terms</u>

A contextual computing approach may prove a breakthrough in personalized search efficiency.

86 Hypermedia in the Large: The structure of broad topics on the web



Soumen Chakrabarti, Mukul M. Joshi, Kunal Punera, David M. Pennock

May 2002 Proceedings of the 11th international conference on World Wide Web

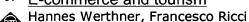
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(771.42 KB) terms

The Web graph is a giant social network whose properties have been measured and modeled extensively in recent years. Most such studies concentrate on the graph structure alone, and do not consider textual properties of the nodes. Consequently, Web communities have been characterized purely in terms of graph structure and not on page content. We propose that a topic taxonomy such as Yahoo! or the Open Directory provides a useful framework for understanding the structure of content-based clusters ...

Keywords: social network analysis, web bibliometry

87 E-commerce and tourism





Publisher: ACM Press

Full text available: pdf(81.45 KB) 1 html(26.31 KB)

Additional Information: full citation, abstract, references, index terms

Travel and tourism are illustrating how e-commerce can change the structure of an industry---and in the process create new business opportunities.

88 Digest of proceedings seventh IEEE workshop on hot topics in operating systems



March 29-30 1999, Rio Rico, AZ

M. Satyanarayanan

October 1999 ACM SIGOPS Operating Systems Review, Volume 33 Issue 4

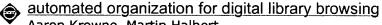
Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, index terms

The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the Rio Rico Resort & Duntry Club, south of Tucson, Arizona. The General Chair, Peter Druschel, and the Local Arrangements Chair, John Hartman, had gone to considerable effort to make the operation of the workshop smooth and pleasant for the participants. The secluded desert locale, the effect of brilliant sunshine and blue skies on winter-jaded northerners, and the enthusiasm and energy of the ...

89 Tools & techniques track: browsing and visualizing collections: An initial evaluation of





Aaron Krowne, Martin Halbert

June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(243.36 KB) Additional Information: full citation, abstract, references, index terms

In this article we present an evaluation of text clustering and classification methods for creating digital library browse interfaces, focusing on the particular case of collections made up of heterogeneous metadata records. This situation is common in "portal" style digital libraries, which are built by harvesting content from many disparate sources, typically using the Open Archives Protocol for Metadata Harvesting (OAI-PMH). By studying the activity of users in an experimental system, we find ...

Keywords: NMF, browsing, categorization, classification, clustering, digital libraries, harvesting, portals, taxonomies

⁹⁰ Task patterns for user interface design: Modeling patterns for task models





A. Gaffar, D. Sinnig, A. Seffah, P. Forbrig

November 2004 Proceedings of the 3rd annual conference on Task models and diagrams TAMODIA '04

Publisher: ACM Press

Full text available: pdf(118.78 KB) Additional Information: full citation, abstract, references, index terms

Models allow us to describe complex systems at different abstract and conceptual levels, hence amplify our analytical and problem solving capabilities, However, a lot of human effort and experience is needed to build correct models, and to translate them to concrete artifacts: in our case a usable user interface. This paper introduces the concept of task and pattern models to leverage the process of task modeling, and show how it can help build generic task models, link them, and instantiate the ...

Keywords: generic pattern types, task models, task patterns, user-centered design

91 Unpacking the semantics of source and usage to perform semantic reconciliation in





large-scale information systems

Ken Smith, Leo Obrst

March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Publisher: ACM Press

Full text available: 🔁 pdf(670.04 KB) Additional Information: full citation, abstract, citings, index terms

Semantic interoperability is a growing challenge in the United States Department of Defense (DoD). In this paper, we describe the basis of an infrastructure for the reconciliation of relevant, but semantically heterogeneous attribute values. Three types of information are described which can be used to infer the context of attributes, making explicit hidden semantic conflicts and making it possible to adjust values appropriately. Through an extended example, we show how an automated integra ...

92 Reputation and endorsement for web services



E. Michael Maximilien, Munindar P. Singh

December 2001 ACM SIGecom Exchanges, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(70.18 KB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

The web services set of standards promise the dynamic creation of loosely coupled systems, such as those that are required for e-commerce applications. However, current approaches for web services lack key functionality, especially to locate, select, and bind services meeting certain criteria of quality. We propose an approach wherein software agents assist in this task by disseminating reputations and endorsements through a specialized agency, which augments the capabilities of current standard ...

Keywords: e-commerce, software agents, web services

93 Special section on sensor network technology & sensor data management (part II):





An initial study of overheads of eddies

Amol Deshpande

March 2004 ACM SIGMOD Record, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(95.53 KB) Additional Information: full citation, abstract, references

An eddy [2] is a highly adaptive query processing operator that continuously reoptimizes a query in response to changing runtime conditions. It does this by treating query processing as routing of tuples through operators and making per-tuple routing decisions. The benefits of such adaptivity can be significant, especially in highly dynamic environments such as data streams, sensor query processing, web querying, etc. Various parties have asserted that the cost of making per-tuple ...

94 Poster session: Index compression vs. retrieval time of inverted files for XML





documents

Norbert Fuhr, Norbert Gövert

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(55.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

Query languages for retrieval of XML documents allow for conditions referring both to the content and the structure of documents. In this paper, we investigate two different approaches for reducing index space of inverted files for XML documents. First, we consider methods for compressing index entries. Second, we develop the new XS tree data structure which contains the structural description of a document in a rather compact form, such that these descriptions can be kept in main memory. ...

Information retrieval models: Detecting similar documents using salient terms



James W. Cooper, Anni R. Coden, Eric W. Brown





Publisher: ACM Press

Full text available: pdf(180.68 KB)

Additional Information: full citation, abstract, references, citings, index terms

We describe a system for rapidly determining document similarity among a set of documents obtained from an information retrieval (IR) system. We obtain a ranked list of the most important terms in each document using a rapid phrase recognizer system. We store these in a database and compute document similarity using a simple database query. If the number of terms found to not be contained in both documents is less than some predetermined threshold compared to the total number of terms in the doc ...

Keywords: databases, document similarity, duplicate documents, shingles, text mining

96 Demo session: P2P based systems: MINERVA: collaborative P2P search Matthias Bender, Sebastian Michel, Peter Triantafillou, Gerhard Weikum, Christian Zimmer August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: To pdf(234.73 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes the live demonstration of a prototype of MINERVA, a novel P2P Web search engine. The search engine is layered on top of a DHT-based overlay network that connects an a-priori unlimited number of peers, each of which maintains a personal local database and a local search facility. Each peer posts a small amount of metadata to a physically distributed directory that is used to efficiently select promising peers from across the peer population that can best locally execute a quer ...

97 A history of the SNOBOL programming languages



Ralph E. Griswold

January 1978 ACM SIGPLAN Notices, The first ACM SIGPLAN conference on History of programming languages HOPL-1, Volume 13 Issue 8

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(3.56 MB)

Development of the SNOBOL language began in 1962. It was followed by SNOBOL2, SNOBOL3, and SNOBOL4. Except for SNOBOL2 and SNOBOL3 (which were closely related), the others differ substantially and hence are more properly considered separate languages than versions of one language. In this paper historical emphasis is placed on the original language, SNOBOL, although important aspects of the subsequent languages are covered.

98 Special section on semantic web and data management: Conceptual model of web





service reputation

E. Michael Maximilien, Munindar P. Singh

December 2002 ACM SIGMOD Record, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(585.87 KB) Additional Information: full citation, abstract, references, citings

Current Web services standards enable publishing service descriptions and finding services on a match based on criteria such as method signatures or service category. However, current approaches provide no basis for selecting a good service or for comparing ratings of services. We describe a conceptual model for reputation using which reputation information can be organized and shared and service selection can be

facilitated and automated.

Keywords: endorsement, reputation, trust, web services

99 Web-based educational applications: Online curriculum on the semantic Web: the CSD-UoC portal for peer-to-peer e-learning



Dimitris Kotzinos, Sofia Pediaditaki, Apostolos Apostolidis, Nikolaos Athanasis, Vassilis

Christophides

May 2005 Proceedings of the 14th international conference on World Wide Web Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, index terms

Online Curriculum Portals aim to support networks of instructors and learners by providing a space of convergence for enhancing peer-to-peer learning interactions among individuals of an educational institution. To this end, effective, open and scalable elearning systems are required to acquire, store, and share knowledge under the form of learning objects (LO). In this paper, we are interested in exploiting the semantic relationships that characterize these LOs (e.g., prerequisite, part-of or ...

Keywords: IEEE-LOM, e-learning portals, jetspeed portlets, semantic Web

100 Using remote facilities: Reports on three EDUNET projects: the common user actions





table, SPSS benchmark jobs and interactive benchmark jobs

Elizabeth R. Little

September 1979 Proceedings of the 7th annual ACM SIGUCCS conference on User services

Publisher: ACM Press

Full text available: pdf(496.26 KB) Additional Information: full citation, abstract, references

Use of a national computing network fosters a number of concerns from a variety of levels within an institution. Two of the most often voiced concerns are: 1) Can users miles away from the host computer really learn enough about the host computer to use it? 2) What are the costs? The EDUNET Central office has developed materials, with the cooperation of the EDUNET suppliers, designed to answer these questions. This report focuses on three specific projects that address using a "foreign" computer ...

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101 Special section on data mining for intrusion detection and threat analysis: ADAM: a

testbed for exploring the use of data mining in intrusion detection

window

Daniel Barbará, Julia Couto, Sushil Jajodia, Ningning Wu December 2001 ACM SIGMOD Record, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(896.53 KB) Additional Information: full citation, abstract, references, index terms

Intrusion detection systems have traditionally been based on the characterization of an attack and the tracking of the activity on the system to see if it matches that characterization. Recently, new intrusion detection systems based on data mining are making their appearance in the field. This paper describes the design and experiences with the ADAM (Audit Data Analysis and Mining) system, which we use as a testbed to study how useful data mining techniques can be in intrusion detection.

Keywords: cyber attacks, data mining, intrusion detection software, pattern analysis

102 Feature selection, perception learning, and a usability case study for text



categorization

Hwee Tou Ng, Wei Boon Goh, Kok Leong Low

July 1997 ACM SIGIR Forum, Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval

SIGIR '97, Volume 31 Issue SI

Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, references, citings, index terms

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